

TD-100^{тм} Transesophageal (TEE) Ultrasound Probe Disinfector

SERVICE MANUAL

Manufactured by:

CS Medical

3300 Lake Woodard Dr. Raleigh, NC 27604 USA

www.csmedicalllc.com Sales: sales@csmedicalllc.com Customer service: service@csmedicalllc.com

> Phone: (877) 255-9472 Phone: (919) 255-9472 Fax: (919) 212-8050

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TD-100^{тм} Probe Disinfector Operators Manual

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SECTION 1: TD-100[™] System

Section 1.1: Signal Words/Definitions

WARNING! - INDICATES A POTENTIALLY HAZARDOUS SITUATION, WHICH IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.



CAUTION! - INDICATES A POTENTIALLY HAZARDOUS SITUATION, WHICH IF NOT AVOIDED, MAY RESULT IN MINOR OR MODERATE INJURY. IT MAY ALSO BE USED TO ALERT AGAINST UNSAFE PRACTICES OR POTENTIAL EQUIPMENT DAMAGE.

Definitions

- Purge: Purge is when the unit is drained prior to starting a run, during normal operation or when a run is interrupted.
- TD-5TM: TD-5TM is the bottle which contains the disinfectant.

Symbols

Symbol for Alternating Current



IE TD-100™ IS DESIGNED FOR USE WITH TEE ULTRASOUND PROBES ONLY.

IESE INSTRUCTIONS MUST BE PLACED IN A VISIBLE LOCATION.



) NOT USE THIS SYSTEM UNTIL IT HAS BEEN PROPERLY INSTALLED.



IE TD-100[™] SYSTEM MAY NOT BE USED IN EXPLOSION ENDANGERED AREAS.

ONNECT THE SYSTEM TO A HOSPITAL GRADE, GFI RECEPTACLE ONLY. GFI OUTLET <u>MUST</u> BE TESTED ON A REGULAR BASIS PER THE GFI MANUFACTURERS' RECOMMENDATION.

> NOT ATTEMPT TO ACCESS NON-USER SERVICEABLE COMPONENTS OF THE TD-100™ SYSTEM.



DO NOT OPERATE THIS UNIT IF THE POWER CORD APPEARS DAMAGED OR FRAYED IN ANY WAY.



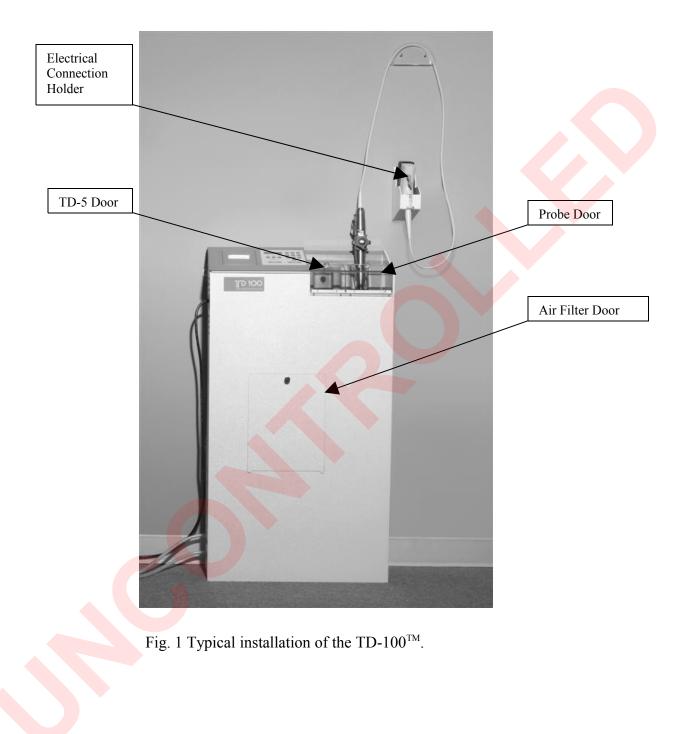


ONLY ULTRASOUND PROBES LISTED IN THIS MANUAL MAY BE USED WITH THIS SYSTEM - SEE LIST IN SECTION 9.2.



DO NOT OPERATE THIS UNIT IF DISPLAY IS BLANK OR HARD TO READ. IF DISPLAY IS HARD TO READ, CALL CUSTOMER SERVICE.

Illustration of the TD-100TM Probe Disinfector



1.3 System Overview of TD-100TM Probe Disinfector

The TD-100TM is an automated disinfector that is designed to provide high-level disinfection of transesophageal (TEE) ultrasound probes. A TEE ultrasound probe is considered a semi-critical device that enters the body through the esophagus. The TD-100TM rinses the disinfected TEE probe using high quality potable water.

Note: When using potable water for rinsing, the user should be aware of the increased risk of recontaminating the TEE probe with Pseudomonas and atypical (fast growing) Mycobacteria often present in potable water supplies. Additionally, Mycobacteria are highly resistant to drying; therefore, rapid drying will avoid possible colonization but may not result in a device free from atypical Mycobacteria. Water treatment systems, such as water softeners or deionizers, may add microorganisms to the treated water to the extent that microbial content of the water at the point of use could exceed that of the pretreated drinking water. To ensure proper water quality, adherence to maintenance of the water treatment system is recommended. The use of a bacterial retentive (0.2 micron) filter system may eliminate or greatly reduce the amount of waterborne bacteria from the potable water source. Contact the manufacturer of the filter system for instructions on preventive maintenance to avoid colonization or formation of biofilms in the filter Endoscopes with their intricate channels can provide ideal situations for rapid colonization of bacteria. Although TEE probes do not have any internal channels, there is still the potential for colonization of waterborne bacteria. Waterborne bacteria are highly resistant to drying; rapid drying will avoid possible colonization. A final drying step is recommended following the TEE probe manufacturer's recommendations. In the absence of a recommended drying procedure the following is recommended: A final wipe down using 70% isopropyl alcohol solution is useful to speed the drying process and reduce the numbers of any organism present as a result of rinsing with potable water. Although these bacteria are not normally pathogenic in patients with health immune systems, AIDS patients or other immuno-compromised individuals may be placed at high risk of infection by these opportunistic

The system uses TD-5TM disinfectant, which is designed only for use with the TD-100TM. The disinfectant is packaged in 500ml bottles. One bottle of disinfectant is used for each process cycle. The disinfectant bottles are not designed to be re-used in the system. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

microorganisms.

During each disinfection cycle, the machine itself is disinfected with the TD-5TM disinfectant. All wetted surfaces and components within the TD-100TM are exposed to the same disinfection conditions as TEE probes. After being disinfected these same surfaces, components and TEE probes are rinsed free of any residual TD-5TM disinfect, completing the disinfection cycle.

The TD-100TM is microprocessor controlled and will automatically disinfect the probe once the cycle begins.

WARNING! TEE PROBES MUST BE PRE-CLEANED PRIOR TO USE IN THE SYSTEM. SEE PRE-CLEAN INSTRUCTIONS IN SECTION 3 OF THIS MANUAL.

The TD-100[™] will take approximately 17 minutes to complete the disinfection and rinse cycles, after which the TEE probe is removed from the machine.

At the end of a cycle, a printout will allow the user to verify that the machine has completed a valid cycle. If an error occurs during the process the run is invalidated and an error report prints.

At the end of a valid cycle, the TEE probe must be removed from the system and dried according to the probe manufacturer's recommendations.

The unit is placed on the floor against a wall. The installation kit includes four wall brackets for support. It requires an electrical connection to a 120V outlet, water and drain connections.

1.4 Site Requirements and Specifications

Actual Size

| Width Depth Height Weight | 24" [61cm] 8" [20.32cm] 44" [112cm] 70 lbs [32kg] |
|------------------------------------|--|
| Electrical Requirements | |
| Service | 120 V~ (VAC), 20 Amp, 60 HZ- dedicated circuit terminated in 20 Amp hospital grade GFCI double wall receptacle |
| Ratings | 120 V~, 60 Hz, 8A |
| Fusing | Fast Acting, 10A, 125V, 5mm X 20 mm Cooper Bussman GMA-10A (or equivalent) |
| Water Supply Requirements | |
| Delivery pressure | Regulated to 20-25 PSI Using a Watts 263A with a pressure gauge and female ¹ / ₄ " NPT outlet (or equivalent) |
| Flow rate | 1gpm at 20 PSI Minimum |
| Temperature | Cold water supply: 50 - 80 degrees F |
| Shut-off | A shut-off valve is recommended |
| Connection | 10 feet of ¹ / ₄ " ID Tubing (provided in installation kit) |

| Quality | High quality potable water; a high quality potable water is one that meets Federal Clean Water Standards at the point of use. |
|--------------------|--|
| Water usage | Approx one gallon per processing cycle |
| Drain Requirements | |

Drain

 $1\frac{1}{2}$ " Drain pipe no more than 18" above the floor. A special drain connection fitting is provided in the installation kit.

Environmental Requirements

- Indoor use
- Altitude up to 2000m (6562 ft)
- Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% at 40°C.
- Mains supply fluctuations up to $\pm 10\%$ of the nominal voltage
- Category II installation
- Pollution degree 2 environment
- Room Temperature 60 90°F
- Room Humidity 20 80% RH non-condensing

Classification

Protective against electric shock: Protective Class 1, ordinary protection.

SECTION 2: TD-5[™] High Level Disinfectant

2.1 Vapor Control

The American Congress of Industrial Hygienists (ACGIH) recommends a glutaraldehyde ceiling exposure limit of 0.05 ppm.

The TD-100[™] is fitted with an air filtration system that minimizes exposure to glutaraldehyde fumes and vapors. During factory testing, normal exposure levels were found to be below the 0.05 ppm exposure limit. Correct use of this equipment per the guidelines and instructions in this Operators Manual will ensure that your exposure to glutaraldehyde vapors is minimized.



CAUTION! SHOULD YOU SMELL GLUTARALDEHYDE VAPORS DURING NORMAL OPERATION, IMMEDIATELY CHECK EXHAUST FAN OPERATION BY PLACING HAND OVER OUTLET ON LEFT SIDE OF MACHINE AND FEEL FOR AIR FLOW. THEN SHUT DOWN THE SYSTEM AND FOLLOW THE EMERGENCY PURGE PROCEDURE.

EMERGENCY PURGE PROCEDURE

- 1) Turn off main power switch for 10 seconds and turn back on.
- 2) System will purge any liquid in reservoir.
- 3) Once reservoir is purged, open the probe door and slowly pour in 16 oz of clean water.
- 4) Allow system to purge water and repeat step 3 with another 16oz of clean water.
- 5) Allow system to purge and shut off main power switch.
- 6) Remove TD-5 bottle, replace cap and dispose of.
- 7) Remove probe and dry according to probe manufactures' recommendation.



2.2 Emergency Shut Down Procedure

- 1) Turn the main power switch to the off position.
- 2) Turn off water.

AIR FILTER OR FAN FAILURE

If you smell glutaraldehyde vapors and are following correct operating procedures per this manual; then either the fan is not working or the air filter has reached saturation.

- 1) Fan failure: Check airflow with power on by placing hand over outlet on left side of machine. If no air, call customer service.
- 2) Filter saturation: Change Filter (refer to Section 6.3)

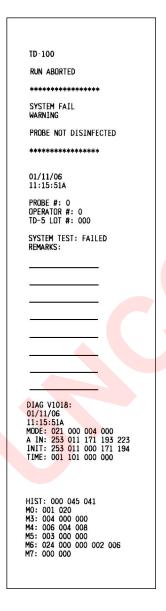
SECTION 3: Operating Instructions

3.1 Aborted Cycle

If during the run the unit detects an error, an abort message will display. The unit will display:

RUN ABORTED YES REPRINT NO

The unit will print an invalid run report and request if you want a reprint of this report. Should you run out of paper, replace paper and press "A" to reprint the aborted run. The unit will always print "WARNING PROBE NOT DISINFECTED" whenever an invalid run occurs for any reason.



WARNING!

THE TEE PROBE IS NOT DISINFECTED WHENEVER AN INVALID RUN OCCURS. THE PROBE IS CONSIDERED CONTAMINATED UNTIL A VALID RUN WITH A VALID RUN PRINTOUT OCCURS.

The printout on the left indicates an invalid run has occurred. The system prints the date and time of the invalid run and always lists the Diagnostics for this run and the history of previous runs. The diagnostic information is used to assist in troubleshooting the problem. When you call for assistance, please have a copy of your invalid run printout.

CAUTION!

ALWAYS SAVE THIS PRINTOUT FOR LATER REFERENCE.



N! ALWAYS RESET THE TD-100[™] AFTER AN ABORTED CYCLE.

To reset the machine, turn the power off and then turn the power on. This ensures that the TD- 100^{TM} purges any liquid left in the system after an aborted run. If after resetting the machine it is not possible to obtain a valid cycle, purge the machine using the EMERGENCY PURGE PROCEDURE (Section 2.4) and call customer service.

SECTION 4: Quality Assurance

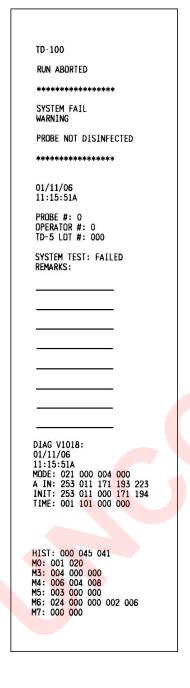
4.1 Valid Cycle Printout

This picture shows a valid cycle printout.

System ID - TD-100 TD-100 RUN COMPLETE Run status - Run complete (this indicates a successful 12/21/05 run) 10:22:13A PROBE #: 0 OPERATOR #: 0 TD-5 LOT #: 000 Date of run SYSTEM TEST: PASSED Time of run completion REMARKS: Probe identification number Operator identification number TD-5 Lot # Diagnostic status - System Test: Passed Remarks: In the remarks field you may add your own handwritten remarks for your records. For example, you may want to add a patient number or some other identification number.

4.2 Aborted/Invalid Cycle Printout

Should the system determine an error or incorrect procedure, such as an attempt to remove the probe during disinfection the system will abort the cycle. The system will print an aborted run report (as shown below) indicating a failed run.



The report at the left shows that an invalid run has occurred, "RUN ABORTED" indicates a failed run. The TEE probe is not disinfected.



THE TEE PROBE IS NOT DISINFECTED WHENEVER AN INVALID RUN OCCURS. THE PROBE IS CONSIDERED CONTAMINATED UNTIL A VALID RUN WITH A VALID RUN PRINTOUT OCCURS.

4.3 Troubleshooting

For assistance with troubleshooting, please contact:

CS Medical 3300 Lake Woodard Dr. Raleigh, NC 27604 USA

Phone: (877) 255-9472 Phone: (919) 255-9472 Fax: (919) 212-8050 Email: service@csmedicalllc.com

When you call for assistance, please have a copy of your invalid run printout.



WARNING! REPAIRS BY UNAUTHOURIZED PERSONEL SHOULD NOT BE ATTEMPTED AND WILL VOID THE MANUFACTURERS WARRANTY. UNAUTHORIZED REPAIRS MAY ALSO DAMAGE OR MAKE UNSAFE THE PRODUCT AND / OR ITS COMPONENTS.

4.4 Water Supply Problem

If water pressure to TD-100[™] drops below 10 PSI, the display will read LOW WATER ERR to indicate the water pressure is low. The unit will also audibly beep until the problem is corrected.

Check water supply

- Is the inlet hose connected?
- Is the supply line kinked?
- Is the pressure gauge at 20-25 PSI static?

4.5 Diagnostic Failure

During operation, the TD- 100^{TM} is constantly checking the valid function of the unit. If a fault is detected, the TD- 100^{TM} will shut down and an error report will print.

The diagnostic information at the bottom of the error report can be used to help diagnose the problem that occurred.

NOTE: Should an error occur, please have a copy of the error printout available when you call customer service.

In most cases, there are very few operator corrections that can be made when a diagnostic error has occurred. Any operator corrections that can be made are found in the following chart.

4.6 Troubleshooting

| roblem/Message | Possible Cause | Corrective Action |
|---|------------------------------------|---|
| | Power switch off | Verify power switch is turned on |
| | Power cord loose or disconnected | Verify that power cord supplied with unit is firmly seated in unit and wall receptacle |
| nit will not start / No display | Tripped GFI outlet | Verify that power is available at outlet |
| | Blown fuse | Contact CS Medical |
| splay not legible | Display or controller problem | Contact CS Medical |
| nusual or chattering noise | Controller problem | Contact CS Medical |
| | Water supply line not connected | Verify that water line is connected per installation instructions |
| | Water supply line obstructed | Verify that water line is not pinched or kinked |
| w water pressure message | Water supply valve off | Verify that water supply valves are turned on |
| | Improperly adjusted regulator | Adjust to specifications |
| | Faulty pressure sensor | Contact CS Medical |
| | Drain not connected | Verify that drain line is connected per installation instructions |
| | Drain line obstructed | Verify that drain line is not pinched or kinked |
| ump runs continuously when turned on | Dry unit | Pour one pint of water into reservoir. Water should pump immediately to drain and stop. |
| | Faulty valve or pressure sensor | Contact CS Medical |
| | Drain hose may have been shortened | Contact CS Medical |
| | Drain not connected | Verify that drain line is connected per installation instructions |
| guid left in tube after run | Drain line obstructed | Verify that drain line is not pinched or kinked |
| | Plugged strainer | Clean strainer per instructions. |
| | Faulty pump, valve or sensor | Contact CS Medical |
| | Incorrect probe | Verify that probe is approved for use in the TD-100 [™] |
| obe does not slide easily into tube | Obstruction in tube | Clean strainer per instructions. |
| | Door misaligned or obstructed | Visually inspect for obstructions and that door seats properly. |
| ycle will not progress beyond "close door" prompt | Faulty switch | Contact CS Medical |
| ompt to remove probe when no probe in place | Probe switch stuck | Press and release switch at rear of probe holder. Verify that switch moves freely. |
| | Faulty switch | Contact CS Medical |
| | T <mark>D-5</mark> ™ switch stuck | Press and release switch at rear of TD-5 [™] reservoir. Verify that switch moves freely. |
| rompt to remove TD-5™ when no TD-5™ in plac | F <mark>aul</mark> ty switch | Contact CS Medical |



| Problem/Message | Possible Cause | Corrective Action |
|--|---|--|
| lo printout when run completes Vater leakage observed around unit iisinfectant leakage | No printer paper | Replace printer paper per instructions |
| No printout when run completes | Printer paper jammed | Open printer door. Verify that paper runs through the slot in the printer door and is not jammed. |
| | Printer failure | Contact CS Medical |
| | Leaking water supply line or connection to unit | With water supply turned off, verify that quick disconnects are properly seated and hose clamps are tight. |
| Water leakage observed around unit | Disconnected or broken drain line | Verify that drain line is properly seated into correct port. Contact CS Medical for replacement it damaged. |
| | System overfilling during rinse | Contact CS Medical |
| | Loose or missing cleanout plug | Replace or tighten cleanout plug. |
| | Internal failure | Contact CS Medical |
| | Leaking disinfectant bottle | Do not use leaking bottles. Clean up per instructions. Verify that drain line is properly seated into correct port. Contact CS Medical for replacement it |
| sinfectant leakage Disconnected or broken drain line Loose or missing cleanout plug | Disconnected or broken drain line | damaged. |
| | Loose or missing cleanout plug | Replace or tighten cleanout plug. |
| | Internal failure | Contact CS Medical |
| Disinfectant overflow from reservoir | System not empty before starting cycle | See "Liquid left in tube after run" |
| | Air filter expired | Replace air filter per instructions |
| | Disinfectant le <mark>ak</mark> age or spillage | Clean up per instructions. |
| Disinfectant odor | Doors not closed | Close doors |
| | Power interrupted during run | Restart unit. |
| | Fan failure | Contact CS Medical |
| Level error | Float switch stuck | Verify that float switches at rear of reservoir move freely up and down. |
| | Faulty pressure sensor | sensor Contact CS Medical |
| | Low disinfectant | Verify that disinfectant is not leaking. If not then restart unit with full disinfectant bottle. |
| | Plugged strainer | Clean strainer per instructions. |
| | Faulty heater or thermal cutout | Contact CS Medical |
| | Faulty pump or valve | Contact CS Medical |
| Heater fail | Loss of heater control | Contact CS Medical |

| Problem/Message | Possible Cause | Corrective Action |
|-----------------|--|--|
| Duran care | Plugged strainer | Clean strainer per instructions. |
| Pump error | Faulty pump, valve or sensor | Contact CS Medical |
| Pump fail | Loss of pump control | Contact CS Medical |
| | Drain not connected | Verify that drain line is connected per installation instructions |
| Valve error | Drain line obstructed | Verify that drain line is not pinched or kinked |
| | Faulty pump, valve or sensor | Contact CS Medical |
| | Plugged strainer | Clean strainer per instructions. |
| | Drain not connected | Verify that drain line is connected per installation instructions |
| Purge error | Drain line obstructed | Verify that d <mark>rain line is no</mark> t pinched or kinked |
| | Faulty pump, valve or sensor | Contact C <mark>S M</mark> edical |
| | Loose or missing cleanout plug | Re <mark>place</mark> or <mark>tighten cleanou</mark> t plug. |
| | Started with disinfectant TD-5™ not full | Restart unit with full disinfectant bottle. |
| Fill error | Water supply line not connected | Verify that water line is connected per installation instructions |
| | Water supply line obstructed | Verify that water line is not pinched or kinked |
| | Faulty regulator, valve or sensor | Cont <mark>act C</mark> S Medical |
| | System not empty before beginning cycle | See "Liquid left in tube after run" |
| Overflow error | Float switch stuck | Verify that float switches at rear of reservoir move freely up and down. |
| | Faulty valve or sensor | Contact CS Medical |

SECTION 5: Maintenance

5.1 Daily Checks and Daily Cleaning

Daily Checks

Check all exterior plumbing connections on a daily basis and inspect for any sign of damage or leakage. Check the connections in the following order:

- Check the incoming water supply. Make sure the connection is not leaking and that the hose from the connection is not leaking or kinked.
- Check that the drain connection is secure and no leaks or damage are visible.
- Looking at the base or bottom of the unit observe there are no signs of leakage or "spots" which might indicate prior leakage.

Should any damage or leaks be found, refer to the troubleshooting section of this manual to resolve the problem.

Daily Cleaning

Clean all external surfaces with a soft cloth dampened with 70% Isopropyl Alcohol. Open the probe door and the TD-5[™] door to clean internal surfaces with a soft cloth dampened with 70% Isopropyl Alcohol.

5.2 Changing the Printer Paper

To change the printer paper, open the cover by pulling up on the colored tab, see figure 14. To avoid damage do not use excessive force.



Figure 14, Opening Printer Paper Cover.

This will expose the chamber that holds the thermal paper roll. Remove and discard the roll. Place a new role into the chamber paying close attention to the direction of installation. The roll should be placed in so the paper is feed from the bottom of the roll.

Pull out an inch or two of paper and close the cover by applying equal amounts of pressure on each side until the cover locks in place, see figure 15. Tear away the excess paper and the printer is ready to use.



Figure 15, Closing Printer Paper Cover.

5.3 Changing the Air Filter (Part # CS-TDFGLT)

! CAUTION! THE AIR FILTER MUST BE CHANGED ACCORDING TO YOUR SERVICE AGREEMENT.



CAUTION! TURN OFF THE POWER BEFORE REPLACING THE AIR FILTER.

CAUTION! FILTER IS HEAVY.



To change the filter:

- 1. Remove filter door.
- 2. Remove the filter.
- 3. Replace with new filter taking care not to damage the gasket on the filter as you insert it.
- 4. Ensure arrows are pointing upwards.
- 5. Replace cover. Unit is now ready to use.

Fig. 16

5.4 Setting or Changing the Date and Time.

When you first receive your TD-100TM, you may need to set the date and time. Follow the steps below to enter the correct date and time. Do not press "ENTER" except at the end of the sequence below.

- 1) Turn on the main power to the TD-100TM by activating the main power switch.
- 2) Unit will briefly enter the purge mode and then display "PRESS START" on the top line of the display and "SETUP" on the bottom line.
- 3) Now press the "A" key to enter the setup mode. The TD-100[™] will display a random time and date.
- 4) The date is displayed on the top line in MM/DD/YY format. The month should be blinking.
- 5) Enter a two digit number corresponding to the current month, e.g. 07 = July.
- 6) The TD-100[™] will now automatically step to the day field. Enter a two-digit number corresponding to the current day.
- 7) The TD-100TM will step automatically to the year field. Enter the current year, e.g. 03 = 2003
- 8) The TD-100[™] now steps to the time field. Time is displayed in HH/MM/SS AM or PM.
- 9) Enter a two-digit number corresponding to the current hour. The TD-100[™] now automatically steps to minutes.
- 10) Enter a two-digit number corresponding to the current minute, e.g. 32.
- 11) The TD-100[™] now steps to seconds. Enter a two-digit number corresponding to current second.
- 12) The TD-100[™] now automatically assumes it is AM and displays "A" To change to PM press "1" on the keypad.
- 13) Now press, "ENTER" to accept your changes. TD-100[™] displays "PRESS START" and "SETUP."

NOTE: If you press "ENTER" by mistake before you are finished, select "SETUP" and go back to (1) above.

SECTION 6: Warning and Caution Statement Summary

6.1 Warning Statements

Throughout this manual WARNING and CAUTION statements have been used to alert the operator to important information regarding operator safety or the correct use of this device to achieve high-level disinfection. Please be familiar with these statements before attempting to use the TD-100TM TEE probe disinfector.

A summary of these statements is as follows:



Warning Statements

- **These instructions should be placed in a visible location.**
- \bigwedge Do not use the TD-100TM until it has been properly installed.
- Make sure the TD-100[™] is connected to a hospital grade GFI electrical outlet only.
- The TD-100TM is not designed to be used in explosion endangered areas.
- The TD-100[™] is not protected against water spillage or spray. Take precautions in the use of liquid during cleaning or insertion of devices.
- **Do not attempt to manually open a TD-5TM disinfectant container**
- Avoid contact with skin and avoid breathing vapors of the TD-5[™] disinfectant.
- г

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- The TD-100[™] may only be used with Transesophageal Ultrasound probes. Do not use any other device in this system.
- **Do not use any other disinfectant other than the TD-5TM disinfectant.**
- \bigwedge Do not attempt to refill the TD-5TM with any type of disinfectant.
 - Follow maintenance procedures in the Operators Manual. Failure to follow maintenance procedures may compromise the use of this device.
- Always verify that the disinfectant container is empty at the completion of a cycle.
- **Repairs by unauthorized individuals should not be attempted and may result in damage or malfunction.** Non-operator serviceable components should be serviced by an authorized representative of CS Medical.

SECTION 7: Spare Parts

7.1 Spare Parts List

| Part # | Description |
|-----------|--------------------|
| 200293 | Power Cord* |
| 200496 | Water Supply Hose* |
| 200497 | Drain Hose* |
| 200499 | Drain Filter* |
| CS-TDFGLT | Air Filter |
| 200295 | Printer Paper |
| 200258 | Fuse, 10A |

* See Installation Instructions for Replacement

SECTION 8: Contact Information

8.1 Contact Information

Manufactured by:

CS Medical LLC 3300 Lake Woodard Drive Raleigh, NC 27604 USA

www.csmedicalllc.com

Phone: (877) 255-9472 Phone: (919) 255-9472 Fax: (919) 212-8050